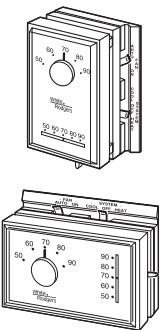


Installation Instructions for:

Horizontal Snap-Action	1F56N-444
Vertical Snap-Action	1E56N-444



YOUR THERMOSTAT REPLACES

System	Models
Standard Heating & Cooling Systems – 4 or 5 wires	
Standard Heat Only Systems	All Models
Standard Central Air Conditioning	
Gas or Oil Heat	
Hydronic (Hot Water) Zone Heat – 2 wires	
Electric Furnace	
Heat Pump (No Aux or Emergency Heat)	
Heat Pump (with Aux or Emergency Heat)	None
Baseboard Electric Heating or Line Voltage (120 or 240 Volt)	
Millivolt Heat Only Systems – Floor or Wall Furnaces	All Models
Hydronic (Hot Water) Zone Heat – 3 wires	

1 PREPARATIONS

Assemble tools required: power drill, flat blade screwdriver, wire cutter/stripper, level.

Failure to follow and read all instructions carefully before installing or operating this control could cause personal injury and/or property damage.

2 THERMOSTAT FEATURES

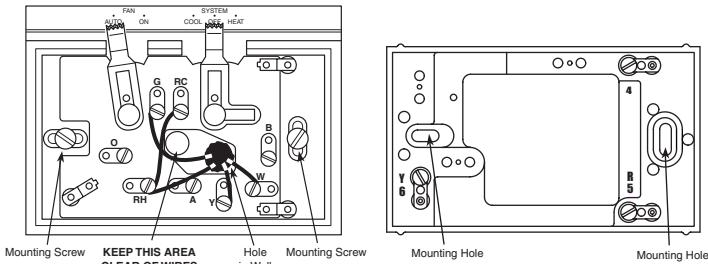


Figure 1. Thermostat subbase and wallplate

3 REMOVING OLD THERMOSTAT

CAUTION

To prevent electrical shock and/or equipment damage, disconnect electrical power to the system at the main fuse or circuit breaker until installation is complete.

Before removing wires from old thermostat's switching subbase, label each wire with the terminal designation it was removed from.

1. Remove Old Thermostat: A standard heat/cool thermostat consists of three basic parts:

- The cover, which may be either a snap-on or hinge type.
- The base, which is removed by loosening all captive screws.
- The switching subbase, which is removed by unscrewing the mounting screws that hold it on the wall or adaptor plate.

Make a note here [] of the anticipator setting on the old thermostat for future reference and use in step 5.

The heat anticipator pointer, if adjustable, will be set at one of a series of numbers representing the current rating of the primary control in your furnace. The number will be one of the following: .2, .4, .8, etc. or 0.2, 0.4, 0.8, etc.

3 REMOVING OLD THERMOSTAT (cont'd)

If no heat anticipator/indication is showing, do not be concerned; move on to the next step.

ATTENTION! This product does not contain mercury. However, this product may replace a unit which contains mercury.

Do not open mercury cells. If a cell becomes damaged, do not touch any spilled mercury. Wearing non-absorbent gloves, take up the spilled mercury and place into a container which can be sealed. If a cell becomes damaged, the unit should be discarded.

Mercury must not be discarded in household trash. When the unit this product is replacing is to be discarded, place in a suitable container. Refer to www.white-rodgers.com for location to send product containing mercury.

4 MOUNTING AND WIRING

! WARNING

Do not use on circuits exceeding specified voltage. Higher voltage will damage control and could cause shock or fire hazard.

Do not short out terminals on gas valve or primary control to test. Short or incorrect wiring will damage thermostat and could cause personal injury and/or property damage.

Thermostat installation and all components of the system shall conform to Class II circuits per the NEC code.

- Remove base from subbase:** Loosen the screws on the base and remove.
- Mount switching subbase:** Use the screws provided to mount the subbase or wallplate to wall (see Fig. 1).
- Attach wires to appropriate terminals:**

- For two wire systems (Heat Only or Cool Only):** Replace subbase with wallplate. If you have a two-wire **Heat Only** system, attach one wire to **R** and one to wire **W**. If you have a two-wire **Cool Only** system, attach one wire to **R** and one to wire to **Y**. Tighten any unused terminals securely. (see Fig. 5 and 6).
- If your system has more than two wires:** Use the cross reference chart to determine correct wire connections. If you have a four-wire heat/cool system leave the factory installed jumper between **RC** and **RH** attached (see Fig 2.). If your system has five wires remove the factory installed jumper between **RC** and **RH** (see Fig 3.).
- Electric heat or single stage heat pump systems:** These thermostats are configured from the factory to operate a heat/cool, fossil fuel (gas, oil, etc.) forced air system. This is correct for any system that DOES NOT require the thermostat to energize the fan on a call for heat. If your system is an electric heat or heat-pump system that REQUIRES the thermostat to turn on the fan on a call for heat, remove the yellow factory-installed jumper wire from the **Y** terminal and connect it to the **A** terminal. This will allow the thermostat to energize the fan immediately on a call for heat. If you are unsure if the heating system requires the thermostat to control the fan, contact a qualified heating and air conditioning service person. For single stage heat pump applications (no auxiliary heat), install a short jumper wire (not included) across terminals **W** and **Y**. If the system has a reversing valve connection energized in Cooling, attach it to **Q**. If the system has a reversing valve connection energized in Heating, attach it to **B** (see Fig. 4.). This thermostat will not provide multi-stage heating or cooling.

- Mount Thermostat Base:** Gently push excess wire back into the wall opening and plug hole with a fire-resistant material, such as fiberglass insulation to prevent drafts from affecting thermostat operation. Mount the thermostat base to the subbase using the three captive screws on the thermostat base. (See Fig. 1) Tighten the screws securely. Proceed to Step #5.

! CAUTION

Take care when securing and routing wires so they do not short to adjacent terminals or rear of thermostat. Personal injury and/or property damage may occur.

TERMINAL CROSS REFERENCE CHART

New Thermostat Terminal Designation	Other Manufacturers' Terminal Designation				
RH	4	RH	M	R5	R
RC	R	R	V	—	—
G	G	G	F	G	G
W	W	W	H	4	W
Y	Y	Y	C	Y6	Y

* These are four-wire, single-transformer systems. Factory installed jumper wire between the RH and RC terminals must remain in place.

8 TROUBLESHOOTING

Symptom	Possible Cause	Corrective Action
No Heat/No Cool/No Fan (common problems)	<ol style="list-style-type: none"> Blown fuse or tripped circuit breaker. Furnace power switch to OFF. Furnace blower compartment door or panel loose or not properly installed. 	<p>Replace fuse or reset breaker. Turn switch to ON. Replace door panel in proper position to engage safety interlock or door switch.</p>
No Heat	<ol style="list-style-type: none"> Pilot light not lit. Broken or melted anticipator wire. Loose connection to thermostat or system. Thermostat or heating system requires replacement or service. System Switch not set to Heat. 	<p>Re-light pilot. Excessive current or dead short in system. Have a qualified service person check the system before replacing thermostat. Verify thermostat and system wires are securely attached. Your furnace manufacturer or service person can describe how to test the heating system to verify it is operating correctly. If the heating system is capable of operation and the no heat condition persists, replace the thermostat. Set System Switch to Heat and raise temp above room temp.</p>
Intermittent Heat	1. Furnace Lock-Out Condition	Many furnaces have safety devices that shut the system down when a lock-out condition occurs. If the heat works intermittently contact the furnace manufacturer or local service person for assistance.
No Cool	<ol style="list-style-type: none"> Loose connection to thermostat or system. Thermostat or cooling system requires replacement or service. System Switch not set to Cool. 	<p>Verify thermostat and system wires are securely attached. Your cooling system manufacturer or service person can describe how to test the cooling system to verify it is operating correctly. If the cooling system is capable of operation and the no cooling condition persists, replace the thermostat. Set System Switch to Cool and lower temp below room temp.</p>
Heat, Cool or Fan Runs Constantly.	<ol style="list-style-type: none"> Possible short in wiring. Possible short in thermostat. Possible short in heat/cool/fan system. 	Check each wire connection to the thermostat to verify it is neatly looped under the terminals. No extra wire should stick out from under the terminals.
Furnace Cycles Too Fast or Too Slow Narrow or wide temperature swing	See Step 5, Adjusting the Anticipator.	The anticipation setting is the only adjustment that effects the heating cycle rate. If an acceptable cycle rate is not achieved using the anticipator contact a local service person for additional suggestions. The location of the thermostat, size of the Heat/Cool System and current draw can influence the cycle rate.
Cooling Cycles Too Fast or Too Slow (narrow or wide temperature swing)	<ol style="list-style-type: none"> Poor thermostat location for sensing room temperature. Cooling system over or undersized. Excessive Current draw influencing thermostat. 	The cycle rate for cooling can not be adjusted. The location of the thermostat, size of the Cool system and current draw can influence the cycle rate. Contact a local service person for suggestions.
Thermostat Setting and Thermostat Thermometer Disagree	<ol style="list-style-type: none"> Thermostat thermometer setting requires adjustment. Thermostat setting lever requires calibration. 	The thermometer can be adjusted by using a standard slotted screwdriver. Turn the thermometer pointer screw located inside the front cover to change the setting. For calibrating the setting lever contact a local heating and cooling service person.
Adjusting Thermometer	1. Thermostat thermometer disagrees with other room thermometers.	The thermometer on the thermostat is accurately calibrated at our factory but you can adjust it by using a standard slotted screwdriver. Turn the thermometer pointer screw located inside the front cover to change the setting.

HOMEOWNER HELP LINE: 1-800-284-2925

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5 AJUSTE DE ANTICIPADOR DE CALOR

